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On the abstract page:

Please amend the abstract page as follows:

ABSTRACT OF THE DISCLOSURE

A hollow fiber membrane gas separation apparatus of a compact design suitable for separation and purification of gases is disclosed. The apparatus comprises an outer housing that consists of a detachable bowl and a head closure, and a removable hollow fiber membrane cartridge positioned therein. The cartridge contains a concentric tubular inner core member and is surrounded by a shell and at least one end closure. The cartridge is attached by its first axial end in a sealed and removable manner to a gas flow conduit positioned coaxially in the housing closure wherein the conduit is in fluid communication with a gas inlet or product gas outlet port formed in the housing head closure and by its second axial end to a waste gas exit port in the bowl. The feed gas inlet port and the product gas outlet port in the head closure are spaced in a straight line for a short overall distance providing for a linear connection with other components of a gas separation system, which is a preferred system component packaging.